

# COMPUTER PROGRAMMING LANGUAGE STATEMENT BUILDING AND INFORMATION TOOL

## ABSTRACT

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C1 An intelligent real time tool to assist a computer programmer during the writing and/or maintenance of a computer program. The tool generates assist windows that contain program related information that the programmer can use to construct a programming language statement and/or to obtain real time information about a programming language statement. An assist window can be  
10 automatically displayed as determined by the tool itself, and/or manually displayed on demand in response to a user input command. An assist window displays two general categories of information including but not limited to selection menu information based on a partial compilation of all programming language statements, and informational displays based on a partial compilation  
15 and a reverse parse of an immediate programming language statement. The statement generating tool assist windows are non-intrusive to programmer input and can be ignored by the programmer by merely continuing to type an immediate programming language statement without interacting with the assist windows that are proximate the programming language statement being  
20 constructed by the programmer.

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An intelligent real time tool assists a computer programmer during the writing and/or maintenance of a computer program. The tool generates assist windows that contain program related information that the programmer can use to construct a programming language statement and/or to obtain real time information about a programming language statement. An assist window can be automatically displayed as determined by the tool itself, and/or manually displayed on demand in response to a user input command. An assist window displays two general categories of information including but not limited to selection menu information based on a partial compilation of all programming language statements, and information displays based on a partial compilation and a reverse parse of an immediate programming language statement. The statement generating tool assist windows are non-intrusive to programmer input and can be ignored by the programmer by merely continuing to type.